4,593,110 United States Patent [19] [11] Patent Number: Goldwasser et al. Date of Patent: Jun. 3, 1986 [45] [54] PREPARATION OF [56] References Cited 1,3-DIOXA-5,5,6,6,7,7-HEXAFLUOROCY-U.S. PATENT DOCUMENTS CLOOCTANE 3.419,531 12/1968 Trischler 549/347 FOREIGN PATENT DOCUMENTS [75] Inventors: Judah M. Goldwasser; Horst G. Adolph; Cynthia L. Ehner, all of Silver Spring, Md. 1294657 11/1972 United Kingdom 549/347 OTHER PUBLICATIONS K. G. Shipp et al., Jour. Org. Chem., vol. 31, (1966) pp. The United States of America as [73] Assignee: 853-856. represented by the Secretary of the Navy, Washington, D.C. Primary Examiner-Norma S. Milestone Attorney, Agent, or Firm-Robert F. Beers; Kenneth E. Walden; Roger D. Johnson [21] Appl. No.: 752,704 **ABSTRACT** One mole of 2,2,3,3,4,4-hexafluoropentane-1,5-diol is [22] Filed: Jul. 8, 1985 reacted with one mole of formaldehyde in the presence of an excess of trifluoromethanesulfonic acid to produce 1,3-dioxa-5,5,6,6,7,7-hexafluorocyclooctane. [58] Field of Search 549/347 4 Claims, No Drawings